

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

ORIGINAL

FIELD NOTES

OF

THE DEPENDENT RESURVEY OF

A PORTION OF THE WEST BOUNDARY,

AND

A PORTION OF THE SUBDIVISIONAL LINES,

IN

**TOWNSHIP 42 SOUTH, RANGE 17 WEST,**

OF THE SALT LAKE MERIDIAN,  
IN THE STATE OF UTAH

EXECUTED BY

***Dale A. Graff***  
***Cadastral Surveyor***

Under Special Instructions dated and approved ***June 1, 2009***, which provided for the surveys included under Group Number ***1117***, Utah, and Assignment Instructions dated ***June 1, 2009***.

Survey commenced ***June 15, 2009***  
Survey completed ***June 17, 2009***

# INDEX DIAGRAM

Township 42 South, Range 17 West

6	5	4	3	2	1
7	8	9	10	11	12
18 5	17	16	15	14	13
3 19 4	4 20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

## T. 42 S., R. 17 W., SALT LAKE MERIDIAN, UTAH

The following field notes describe the dependent resurvey of a portion of the west boundary and a portion of the subdivisional lines, in T. 42 S., R. 17 W., Salt Lake Meridian, Utah.

History of Surveys

Surveyed by	Retr. or Resurveyed by	
<b>SOUTH BOUNDARY</b>		
All J.H. Winwood & H.L. Chamberlin	1909	
<b>EAST BOUNDARY</b>		
Portion J. Gorlinski	1870	
All M.H. Dalley	1900	
All	J. H. Winwood & H. L. Chamberlin	1909
All	G.B. Hatch	1968
Portion	R.A. Zaninovich	1990
<b>WEST BOUNDARY</b>		
All J.H. Winwood & H.L. Chamberlin	1909	
<b>NORTH BOUNDARY</b>		
All J.H. Winwood & H.L. Chamberlin	1909	
Portion	R.A. Zaninovich	1990
Portion	D.A. Graff	2008
<b>SUBDIVISION</b>		
All J.H. Winwood & H.L. Chamberlin	1909	
Portion	R.A. Zaninovich	1990
Portion	D.A. Graff	2008

The survey was executed in accordance with the specifications as set forth in the Manual of Instructions for the Survey of the Public Lands of the United States, 1973, and the Special Instructions dated June 01, 2009, for Group No. 1117, Utah.

The direction of the lines were determined by references to true meridians, established by Global Positioning System (GPS) utilizing Real-Time Kinematic (RTK) techniques throughout the survey. The positional accuracy of this survey complies with the Standards and Guidelines for Cadastral Surveys Using Global Positioning System Methods, dated May 9, 2001, Version 1.0. Trimble model 5800 GPS receivers were used for field collection.

Preliminary to the resurvey, the lines of the prior surveys were retraced and search was made for all corners and other calls of record. Identified corners were remonumented in their original positions. Lost corners were reestablished and remonumented at proportionate positions based on the official record. The retracement data were thoroughly verified and only the true line field notes are given herein.

## T. 42 S., R. 17 W., SALT LAKE MERIDIAN, UTAH

Geodetic control was derived from Global Positioning System (GPS) static observations post processed by National Geodetic Survey, Online Positioning User Service (OPUS), utilizing Continuously Operating Reference Stations (CORS): NVLM AMS INT FACILITY, ECHO ECHO\_BRGN\_NV1999, and FRED FREDONIA.

The geographic positions, in NAD83 (CORS96), epoch date 2002.00 for the corners listed below were determined by Global Positioning System (GPS) observations to a Network Accuracy of less than 0.200 meter, 95 percent confidence circle, as defined in *Standards and Guidelines for Cadastral Surveys Using Global Positioning Systems Methods*, May 9, 2001, Version 1.0.

The corner of sections 17, 18, 19 and 20, Township 42 South, Range 17 West, Salt Lake Meridian, Utah is as follows:

Latitude 37°07'28.171" N., Longitude 113°47'17.819" W.

The corner of sections 19, 20, 29, and 30, Township 42 South, Range 17 West, Salt Lake Meridian, Utah is as follows:

Latitude 37°06'36.006" N., Longitude 113°47'17.838" W.

DEPENDENT RESURVEY OF A PORTION OF THE WEST BOUNDARY,  
T. 42 S., R. 17 W., SALT LAKE MERIDIAN, UTAH

CHAINS

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Dependent Resurvey of a portion of the West Boundary,  
T. 42 S., R. 17 W., Salt Lake Meridian, Utah

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Reestablishment of the Survey Executed by  
J.H. Winwood & H.L. Chamberlin in 1909.

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Beginning at the corner of sections 19, 24, 25, and 30, on the west boundary of the township, monumented with an iron post, 3 ins. diameter, firmly set, projecting 4 ins. above a mound of stone, 6 ft. diameter, 18 ins. high, with brass cap marked as described in the official record of the 1909 survey.

There is no remaining evidence of the original bearing trees due to recent fire in the area.

Set Aluminum Boundary Post alongside iron post.

Corner is located near the base of a steep rocky, southwest facing slope.

N. 0°00.8' E. between sections 19 and 24.

39.507 The 1/4 section corner of section 19 and 24, monumented with an iron post, 1 in. diameter, firmly set, projecting 16 ins. above ground, in a scattered mound of stones, with brass cap marked as described in the official record of the 1909 survey.

from which

A stump, burned to ground level, bears S 51° E., 7 lks. distance.  
(Record, S. 50°42' E.)

No evidence remains of SW bearing tree.

Raise a mound of stones around iron post, 2 1/2 ft. diameter to cap and set Aluminum Boundary Post alongside.

Corner is located on a steep, rocky, northwest facing slope in an area of recent fire.

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N. 0°01.3' E., beginning new measurement.

40.109 The corner of sections 13, 18, 19, and 24, monumented with an iron post, 3 ins. in diameter, firmly set, 24 ins. above ground in a scattered mound of stones, 2 1/2 ft. diameter, with brass cap marked as described in the official record of the 1909 survey.

DEPENDENT RESURVEY OF A PORTION OF THE WEST BOUNDARY,  
T. 42 S., R. 17 W., SALT LAKE MERIDIAN, UTAH

CHAINS

Raise a mound of stone around iron post, 4 ft. diameter, 1 1/2 ft. high and set Aluminum Boundary Post alongside.

Corner is located in an E - W barbed wire fence line with wood posts that has been burned down and on a steep east facing slope of rocky open ground.

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Dependent Resurvey of a Portion of the Subdivisional Lines,  
T. 42 S., R. 17 W., Salt Lake Meridian, Utah

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Reestablishment of the Survey Executed by  
J.H. Winwood & H.L. Chamberlin in 1909.

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From the corner of sections 19, 20, 29, and 30, monumented with an iron post, 2 in. diameter, firmly set, projecting 13 ins. above ground, with brass cap marked as described in the official record of the 1909 survey.

Raise a mound of stone around iron post, 2 1/2 ft. diameter to cap and set Aluminum Boundary Post alongside.

Corner is located on moderate northeast facing slope on open rocky ground and low vegetation.

S. 89°58.8' W., between sections 19 and 30.

40.097

The 1/4 section corner of sections 19 and 30, monumented with an iron post, 1 in. diameter, firmly set, projecting 20 ins. above ground, with brass cap marked as described in the official record of the 1909 survey.

Raise a mound of stone around iron post, 3 ft. diameter to cap and set Aluminum Boundary Post alongside.

Corner is located on a steep east facing slope in loose rock and rock outcrops.

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N. 89°19.0' W., beginning new measurement.

39.985

The corner of sections 19, 24, 25, and 30.

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From the corner of sections 19, 20, 29, and 30.

N. 0°02.1' E., between sections 19 and 20.

DEPENDENT RESURVEY OF A PORTION OF THE SUBDIVISIONAL LINES,  
T. 42 S., R. 17 W., SALT LAKE MERIDIAN, UTAH

CHAINS

40.127

The 1/4 section corner of sections 19 and 20, monumented with an iron post, 1 in. diameter, firmly set, projecting 10 ins. above ground, with brass cap marked as described in the official record of the 1909 survey. A scattered mound of stone bears west of corner, 4 ft. diameter.

Raise a mound of stone around iron post, 2 ft. diameter to cap and set Aluminum Boundary Post alongside.

Corner is located on a moderate west facing slope among burned juniper and low growing vegetation.

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N. 0°00.1' W., beginning new measurement.

39.830

The corner of sections 17, 18, 19, and 20, monumented with an iron post, 2 in. diameter, firmly set, projecting 16 ins. above ground, with brass cap marked as described in the official record of the 1909 survey.

There is no remaining evidence of the original bearing trees due to recent fire in the area.

Raise a mound of stone around iron post, 2 1/2 ft. diameter to cap and set Aluminum Boundary Post alongside.

Corner is located in an E - W barbed wire fence line and on a slight northwest facing slope of open ground and low vegetation.

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N. 89°55.5' W., between sections 18 and 19.

40.227

The 1/4 section corner of sections 18 and 19, monumented with an iron post, 1 in. diameter, firmly set, projecting 10 ins. above ground in a collar of stone, 1 1/2 ft. diameter, with brass cap marked as described in the official record of the 1909 survey.

A mound of stone bears north of corner, 2 1/2 ft. diameter, 1 1/2 ft high.

Corner is located in an E - W barbed wire fence and on slight northeast facing slope among scattered 5 ft. tall brushes.

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N. 89°54.1' W., beginning new measurement.

39.833

The corner of sections 13, 18, 19 and 24, on the west boundary of the township, hereinbefore described.

T. 42 S., R. 17 W., SALT LAKE MERIDIAN, UTAH

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GENERAL DESCRIPTION

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Township 42 South, Range 17 West is located, in part, within the Shivwits Indian Reservation, in southwestern Utah. The nearest town is Ivins, which is located just east of the northeast corner of the township. The average elevation of the resurvey is 4,600 feet above sea level.

The township consists of deep drainages and canyons among rolling sand and sandstone hills covered low desert vegetation. The soil ranges from soft and sandy to solid sandstone outcrops and high cliffs. Drainages flow primarily toward the Santa Clara River which flows south through sections 1 and 12.

Access is limited within the township and primarily from the north and west. There are few dirt roads lying within the interior of the reservation. There are no roads within this survey, Section 19. A 1,000 ft. high ridge falls as it runs NNE from the south side of the section.



## FIELD ASSISTANTS

[illegible]

## CERTIFICATE OF SURVEY

I, **Dale A. Graff, Cadastral Surveyor**, HEREBY CERTIFY upon honor that, in pursuance of Special Instructions bearing the date of the **1st day of June, 2009**, have **dependently resurveyed a portion of the west boundary and a portion of the subdivisional lines, in Township 42 South, Range 17 West, of the Salt Lake Meridian**, in the state of **Utah**, which are represented in the foregoing field notes as having been executed by me and under my direction; and that said survey has been made in strict conformity with said Special Instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in specific manner described in the foregoing field notes.

07/27/2009

Date

Dale A. Graff

(Cadastral Surveyor)

## CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT  
Salt Lake City, Utah

The foregoing field notes of the **dependent resurvey of a portion of the west boundary and a portion of the subdivisional lines, in Township 42 South, Range 17 West, of the Salt Lake Meridian**, in the state of **Utah**, executed by **Dale A. Graff, Cadastral Surveyor**, having been critically examined and found correct, are hereby approved.

August 6, 2009

Date

Daniel W. Webb

(Chief Cadastral Surveyor for Utah)